

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method, comprising:
 - receiving a pair of input clock signals;
 - utilizing a stratum clock state machine to control a multiplexer;
 - utilizing the multiplexer to switch an input of a main clock between each of the pair of input clock signals;
 - inducing a phase build-out activity except when a skip timer is loaded; and
 - transmitting an output clock signal.
2. (Original) The method of claim 1, wherein inducing the phase build-out activity includes eliminating a set of input transients.
3. (Original) The method of claim 1, further comprising utilizing the stratum clock state machine to manage a plurality of phase-locked loops.
4. (Original) The method of claim 1, further comprising utilizing the stratum clock state machine to set the main clock to a main clock normal state
5. (Original) The method of claim 1, further comprising utilizing the stratum clock state machine to set the main clock to a main clock freerun state.
6. (Original) The method of claim 1, further comprising utilizing the stratum clock state machine to set the main clock to a main clock holdover state.
- 7-14. (Canceled)
15. (Original) The method of claim 1, further comprising setting the stratum clock state machine in a state including at least one member selected from the group consisting of: a stratum clock state machine normal state, a stratum clock state machine freerun state, a stratum clock state machine switch state, a stratum clock state machine offset state and a stratum clock state machine holdover state.

16-26. (Canceled)

27. (Currently Amended) A computer program, comprising computer or machine readable program elements translatable for implementing ~~the~~ a method of claim 1 including:

receiving a pair of input clock signals;

utilizing a stratum clock state machine to control a multiplexer;

utilizing the multiplexer to switch an input of a main clock between each of the pair of input clock signals;

inducing a phase build-out activity except when a skip timer is loaded; and

transmitting an output clock signal.

28-48. (Canceled)